

Title (en)
BIOLOGICAL AGENT FOR PREVENTING AND TREATING LEAF DISEASE IN PLANTS CAUSED BY BIOTROPHIC OR HEMIBIOTROPHIC FUNGI

Title (de)
BIOLOGISCHES MITTEL ZUR VORBEUGUNG UND BEHANDLUNG VON BLATTKRANKHEITEN BEI PFLANZEN, WELCHE DURCH BIOTROPHE ODER HEMIBIOTROPHE PILZE AUSGELÖST WERDEN

Title (fr)
AGENT BIOLOGIQUE POUR LA PRÉVENTION ET LE TRAITEMENT DES MALADIES DES FEUILLES CHEZ LES PLANTES CAUSÉES PAR DES CHAMPIGNONS BIOTROPHES OU HÉMIBIOTROPHIQUES

Publication
EP 4245143 A1 20230920 (DE)

Application
EP 23152855 A 20230123

Priority
DE 102022105868 A 20220314

Abstract (en)
[origin: US2023284630A1] The present invention concerns the preparation and use of an agent for the prevention and treatment of leaf diseases in plants caused by living biotrophic and hemibiotrophic fungal pathogens, wherein the agent contains the bacterium *Kosakonia radicincitans*.

Abstract (de)
Die vorliegende Erfindung betrifft die Bereitstellung und Verwendung eines Mittels zur Vorbeugung und Behandlung von durch biotroph und hemibiotroph lebenden pilzlichen Erregern hervorgerufenen Blattkrankheiten bei Pflanzen, wobei das Mittel das Bakterium *Kosakonia radicincitans* enthält.

IPC 8 full level
A01N 63/20 (2020.01); **A01P 3/00** (2006.01)

CPC (source: EP US)
A01N 63/20 (2020.01 - EP US); **A01P 3/00** (2021.08 - EP US); **C12N 1/205** (2021.05 - US)

Citation (search report)

- [XY] CRUZ BARRERA MAURICIO ET AL: "Salt stress and hydroxyectoine enhance phosphate solubilisation and plant colonisation capacity of *Kosakonia radicincitans*", JOURNAL OF ADVANCED RESEARCH, ELSEVIER, AMSTERDAM, NL, vol. 19, 1 September 2019 (2019-09-01), pages 91 - 97, XP085727869, ISSN: 2090-1232, [retrieved on 20190327], DOI: 10.1016/J.JARE.2019.03.012
- [XY] BROCK ANITA K ET AL: "Plant growth-promoting bacteria *Kosakonia radicincitans* mediate anti-herbivore defense in *Arabidopsis thaliana*", PLANTA, SPRINGER BERLIN HEIDELBERG, BERLIN/HEIDELBERG, vol. 248, no. 6, 17 August 2018 (2018-08-17), pages 1383 - 1392, XP036639308, ISSN: 0032-0935, [retrieved on 20180817], DOI: 10.1007/S00425-018-2964-0
- [XY] BERGER BEATRICE ET AL: "Successful Formulation and Application of Plant Growth-Promoting *Kosakonia radicincitans* in Maize Cultivation", BIOMED RESEARCH INTERNATIONAL, vol. 2018, 28 March 2018 (2018-03-28), pages 1 - 8, XP093022695, ISSN: 2314-6133, Retrieved from the Internet <URL: <http://downloads.hindawi.com/journals/bmri/2018/6439481.xml>> DOI: 10.1155/2018/6439481
- [XY] BERGER BEATRICE ET AL: "The plant growth-promoting bacterium *Kosakonia radicincitans* improves fruit yield and quality of *Solanum lycopersicum*", JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol. 97, no. 14, 17 October 2017 (2017-10-17), GB, pages 4865 - 4871, XP093022696, ISSN: 0022-5142, Retrieved from the Internet <URL: <https://api.wiley.com/onlinelibrary/tdm/v1/articles/10.1002%2Fjsfa.8357>> DOI: 10.1002/jsfa.8357
- [XY] BROCK ANITA K. ET AL: "Impact of the PGPB *Enterobacter radicincitans* DSM 16656 on Growth, Glucosinolate Profile, and Immune Responses of *Arabidopsis thaliana*", MICROBIAL ECOLOGY, vol. 65, no. 3, 1 April 2013 (2013-04-01), New York, pages 661 - 670, XP093020050, ISSN: 0095-3628, Retrieved from the Internet <URL: <http://link.springer.com/article/10.1007/s00248-012-0146-3/fulltext.html>> DOI: 10.1007/s00248-012-0146-3
- [XY] NAVARTA LEONARDO G. ET AL: "Freeze-drying of a mixture of bacterium and yeast for application in postharvest control of pathogenic fungi", SN APPLIED SCIENCES, vol. 2, no. 7, 1 July 2020 (2020-07-01), pages 1223, XP055921233, ISSN: 2523-3963, Retrieved from the Internet <URL: <https://link.springer.com/content/pdf/10.1007/s42452-020-3049-9.pdf>> DOI: 10.1007/s42452-020-3049-9
- [XY] KOCH ECKHARD ET AL: "Neue Behandlungsverfahren für Maissaatgut", MAIS, 1 February 2018 (2018-02-01), Germany, pages 60 - 63, XP093055014, Retrieved from the Internet <URL: https://www.maiskomitee.de/web/upload/pdf/produktion/mais_2-2018_Koch_et_al_Neue_Behandlungsverfahren_fuer_Maissaatgut_Scan.pdf> [retrieved on 20230616]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4245143 A1 20230920; DE 102022105868 A1 20230914; US 2023284630 A1 20230914

DOCDB simple family (application)
EP 23152855 A 20230123; DE 102022105868 A 20220314; US 202318121356 A 20230314